

1. The area used for ____ of alcohol-based windshield washer fluid in repair garages shall be unclassified.

- (a) storage
- (b) handling
- (c) dispensing into motor vehicles
- (d) any of these

2. The ampacity of the conductors from the generator output terminals to the first distribution device(s) containing overcurrent protection shall not be less than ____ of the nameplate current rating of the generator.

- (a) 75 (b) 115 (c) 125 (d) 140

3. For general motor applications, the motor branch-circuit short-circuit and ground-fault protection device shall be sized based on the ____ values.

- (a) Motor nameplate
- (b) NEMA standard
- (c) NEC Table
- (d) Factory Mutual

4. ____ alternating-current systems operating operating at 480v. shall have ground detectors installed on the system.

- (a) Grounded (b) Solidly grounded (c) Effectively grounded (d) Ungrounded

5. The arrangement of grounding connections shall be such that the disconnection or removal of a receptacle, luminaire, or other device fed from the box does not interrupt the grounding continuity. (a) True (b) False

6. Luminaires and ceiling fans located over or within 5 ft, measured horizontally, from the inside walls of an indoor spa or hot tub shall have a mounting height of not less than ____ above the maximum water level when not GFCI protected.

- (a) 4.70ft (b) 5 ft (c) 7ft 6in. (d) 12ft

7. Supplying 120/240V, 3-wire shore power receptacles from a 120/208V, 3-wire supply may cause overheating or malfunctioning of connected equipment.

- (a) True (b) False

8. Each service disconnecting means shall be suitable for. (a) hazardous (classified) locations (b) wet locations (c) dry locations (d) the prevailing conditions

9. The provisions of Article 690 apply to solar ____ systems, including inverter(s), array circuit(s), and controller(s) for such systems.

- (a) photoconductive
- (b) PV
- (c) photogenic (d)
- (d) photosynthesis

10. In many circumstances, the authority having jurisdiction can be a property owner or his/her designated agent.

- (a) True (b) False

11. Luminaires located within the actual outside dimension of a bathtub and shower shall be marked for damp locations, or marked for wet locations where they are.

- (a) below 7 ft in height
- (b) below 6 ft 7 in. in height
- (c) subject to shower spray
- (d) not GFCI protected

12. A sealing fitting shall be permitted to be installed within ____ of either side of the boundary where a conduit leaves a Class I, Division 1 location.

- (a) 5ft (b) 6ft (c) 8ft (d) 10ft

13. Fountain equipment supplied by a flexible cord shall have all exposed noncurrent-carrying metal parts grounded by an insulated copper equipment grounding conductor that is an integral part of the cord.

- (a) True (b) False

14. For existing installed luminaires without disconnecting means in indoor locations, other than dwellings and associated accessory structures, a disconnecting means ____ in fluorescent luminaires that utilize double-ended lamps (typical fluorescent lamps) at the time a ballast is replaced.

- (a) shall be installed
- (b) is not required to be added
- (c) shall not be installed
- (d) can be a screw terminal

15. Type NM cable protected from physical damage by a raceway shall not be required to be ____ within the raceway.

- (a) covered
- (b) insulated
- (c) secured
- (d) unspliced

16. Branch-circuit conductors supplying a single air-conditioner motor-compressor shall have an ampacity not less than ____ percent of either the motor-compressor rated-load current or the branch-circuit selection current, whichever is greater.

- (a) 100 (b) 125 (c) 150 (d) 200

17. In Class III locations, flexible cords shall _____.

- (a) be listed as extra-hard usage
- (b) contain an equipment grounding conductor
- (c) terminate with a listed dust tight cord connector
- (d) all of these

18. Lighting track shall have two supports for a single section of ____ ft or shorter in length and each individual section of not more than 4 ft attached to it shall have one additional support, unless the track is identified for supports at greater intervals.

- (a) 2 (b) 4 (c) 6 (d) 8

19. Where GFCI protection for personnel is supplied by plug-and-cord-connection to the branch circuit or to the feeder for temporary wiring such as exhibition halls in assembly occupancies, the GFCI protection shall, _____ whether assembled in the field or at the factory.

- (a) be listed as portable ground-fault circuit interrupter protection
- (b) provide a level of protection equivalent to a portable ground-fault circuit interrupter
- (c) shall provide the same level of protection as ground-fault protection for equipment
- (d) a or b

20. A spa or hot tub is a hydromassage pool or tub and is generally not designed to have the contents drained or discharged after each use.

- (a) True (b) False

21. Wiring methods permitted for service-entrance conductors include.

- (a) rigid metal conduit
- (b) electrical metallic tubing
- (c) PVC conduit
- (d) all of these